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METHOD AND APPARATUS FOR CHANGING ASSIGNMENT OF RECEIVER FINGERS

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초록

An apparatus and method changes an assignment of a receiver channel element (302a-302n), such as a RAKE receiver finger based on transmit power control information (212), such as a power control bit or other suitable information, that is used as part of a closed loop transmit power control system between a transmitter and receiver. In one embodiment, a transmit power control information generator (204) produces the transmit power control information (212) on a per channel basis based on received symbol energy (210) of a received spread spectrum signal (202). A receiver channel element management module (206), analyzes the transmit power control information (212) and produces receiver channel element control information (214) to suitably change assignment of receiver channel elements, such as receiver fingers, based on the transmit power control information (212). The reassignment of fingers is rapid and provides close tracking of rapidly changing radio frequency environments.